

In the specification:

Page 1, amend the title as follows:

Title: Catalyst and method for the selective oxidation of sulfur compounds to elemental sulfur[, method for the preparation of such a catalyst, and method for the selective oxidation of sulfur compounds to elemental sulfur].

Page 1, after the title, before line 1, add the following section:

--CROSS REFERENCE TO RELATED APPLICATIONS

This application claims priority from U.S. Application No. 09/142,309, filed December 7, 1998, the entirety of which is herein incorporated by reference.

BACKGROUND OF THE INVENTION--

Page 3, at the end of line 10, after "for the", insert --reverse--.

Page 5, before line 1, add the following sub-title:

--BRIEF SUMMARY OF THE INVENTION--

Page 5, between lines 21 and 22, insert the following subtitles and paragraphs:

--BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 plots the conversion rate of hydrogen sulfide (H_2S) to sulfur (S) and the selectivity of an iron oxide catalyst for that oxidation reaction, as a function of catalyst bed temperature;

Figs. 2A and 2B plot, as a function of catalyst bed temperature, the conversion rate of hydrogen sulfide (H_2S) to sulfur (S) and the selectivity for that reaction of two iron-zinc oxide catalysts (5 wt. % iron oxide; 10 wt. % zinc oxide), the Fig. 2A catalyst having the iron and zinc ions mixed on an atomic scale, and the Fig. 2B catalyst having;

Fig. 3 shows the Mössbauer spectra of the following: (a) bulk $ZnFe_2O_4$ as a reference; (b) an iron and zinc citrate solution calcined after drying; (c) a $Fe(5) Zn(10)SiCl(2)$; with 2 wt.% chloride ions; and (d) an iron-zinc oxide catalyst initially lacking chloride ions;

Figs. 4A and 4B show the H_2S -to-S conversion rate and selectivity of a catalyst in which 5% iron oxide by weight is applied to silicon oxide, with (Fig. 4A) and without (Fig. 4B) the addition of 2% chloride ions by weight; and

Fig. 5 shows, for different catalysts, the lowest possible temperature for maximum H_2S -to-S conversion, as a function of the number of times the catalyst has been heated to $320^\circ C$.

DETAILED DESCRIPTION OF THE INVENTION--

Page 5, line 37, delete the word "de" and insert --be--.

Page 6, in each of lines 22 and 32, insert: --reversing-- before "Claus reaction".

Page 14, line 14, replace "Fig. 2" with --Figs. 2A-2B,--.

Page 14, lines 19-20, delete "the left hand portion of Fig. 2" and replace with --Fig. 2A,--.

Page 14, lines 21-22, delete "the left-hand portion of the figure" and replace with --Fig. 2A,--.

Page 14, line 24, delete "the right-hand figure" and replace with --Fig. 2B,--.

Page 14, line 26, replace "Fig. 2" with --Fig. 2B--.

Page 14, line 32, replace "Fig. 2" with --Figs. 2A and 2B--.

Page 14, lines 33-34, replace "the left-hand portion of the figure" with --Fig. 2B,--.

Page 14, line 35, delete "the temperature than does that in the right-hand figure" and replace with --temperatures above 240°C than does the selectivity of the Fig. 2B catalyst--.

Page 14, line 36, before "catalyst", insert --Fig. 2A--.

Page 14, lines 36-37, delete "whose data are shown in the left-hand portion of the figure".

Page 15, line 11, after " ZnFe_2O_4 ", insert --(spectrum "a")--.

Page 15, line 13, after "drying", insert --(spectrum "b")--.

Page 15, line 14, after "spectrum", insert --"d"--.